



Smithsonian

National Museum of American History Kenneth E. Behring Center

Guide to the Records of Think Surgical, Inc.

NMAH.AC.1378

Alison Oswald

2016

Archives Center, National Museum of American History
P.O. Box 37012
Suite 1100, MRC 601
Washington, D.C. 20013-7012
archivescenter@si.edu
<https://americanhistory.si.edu/archives>

Table of Contents

| | |
|--|----|
| Collection Overview | 1 |
| Administrative Information | 1 |
| Arrangement..... | 2 |
| Historical..... | 2 |
| Scope and Contents..... | 2 |
| Names and Subjects | 2 |
| Container Listing | 4 |
| Series 1: Project History and Background Materials, 1985 - 2003..... | 4 |
| Series 2: Engineering, 1989-2000 (bulk 1991-1993)..... | 6 |
| Series 3: User Guides, 1991 - 2001..... | 9 |
| Series 4: Food and Drug Administration Materials, 1987 - 2001..... | 10 |
| Series 5: Press Clippings, 1983 - 2010..... | 13 |
| Series 6: Audiovisual Materials, 1988 - 2009..... | 14 |
| Series 7: Oral History Interviews, 2016..... | 17 |

Collection Overview

| | |
|--------------------|--|
| Repository: | Archives Center, National Museum of American History |
| Title: | Records of Think Surgical, Inc. |
| Date: | 1983-2010 (bulk 1991-1994) |
| Identifier: | NMAH.AC.1378 |
| Creator: | Think Surgical, Inc. (Fremont, California) (Creator) |
| Extent: | 5.5 Cubic feet (17 boxes, 1 map folder, digital files) |
| Language: | Collection is in English. Some materials in German. |
| Summary: | The collection documents the development of ROBODOC™, the first robot to perform surgery on a human in the United States through correspondence, memoranda, press clippings, press releases, engineering drawings, regulatory policies and procedures, photographs, and audiovisual materials. |

Administrative Information

Acquisition Information

Collection donated by Think Surgical, Inc. through Dr. Mun In-Ki, CEO and President, April 2016.

Related Materials

Materials in the Archives Center

Odex I Walking Robot Collection (AC0203)

Massie/McLurkin Innovative Lives Presentation and Interviews (AC0603)

Computer oral History Collection (AC0196)

Gerber Scientific Instrument Company Records (AC0929)

Processing Information

Collection processed by Alison Oswald, archivist, 2016.

Restrictions

Collection is open for research.

Conditions Governing Use

Collection items available for reproduction, but the Archives Center makes no guarantees concerning copyright restrictions. Other intellectual property rights may apply. Archives Center cost-recovery and use fees may apply when requesting reproductions.

Accruals

152 files (15 .WAV files and 137 .mov files) were transferred from the Division of Medicine and Science to the Archives Center in October 2022.

Historical

ROBODOC™ was the first robot to perform surgery in the United States. It was developed in 1986 by IBM's Thomas J. Watson Research Center, and researchers at the University of California, Davis. They formed a collaborative initiative to develop a surgical device for Total Hip Arthroplasty (THA). The team included William Bargar, M.D., Howard "Hap" Paul, D.V.M (1949- 1993), and engineers, Brent Mittelstadt and Peter Kazanides. See US Patent 5,769,092 for Computer-aided system for revision total hip replacement surgery and US Patent 5,806,518 for Method and system of positioning surgical robot, 1998. The original company, Integrated Surgical Systems (ISS) was incorporated in 1990.

The goal of ISS was to create a robotic surgical system that would redefine precision joint replacement procedures. Drilling into bone by hand is not always precise, and often requires glue to fill in empty spaces. Additionally there is a danger the bone will splinter. In this regard, ROBODOC is similar to computer-controlled machine tools. ROBODOC "mills" the bone or joint for accurate fitting similar to machine tools.

In May of 1990 the device was successfully tested on dogs. Since 1998 when it received 510 (K) clearance from the U.S. Food and Drug Administration for Total Hip Arthroplasty over 28,000 procedures have been performed worldwide.

ROBODOC™ was eventually sold in 2007 to Novatrix Biomedical, Inc. which formed Curexo Medical, Inc. to handle the acquisition of Integrated Surgical Systems, Inc. (ISS). ISS became THINK Surgical, Inc. in 2014.

Scope and Contents

The collection documents the development of ROBODOC™, a robotic surgical system that would redefine precision joint replacement procedures. The collection contains correspondence, memoranda, press clippings, press releases, engineering drawings, regulatory policies and procedures, photographs, and audiovisual materials documenting the development of the ROBODOC™. The collection is strong in documentation about regulatory policies and procedures the company undertook for approval from the Food and Drug Administration.

Arrangement

The collection is divided into six series.

Series 1: Project History and Background Materials, 1985-2003

Series 2: Engineering Materials, 1989-2000, bulk 1991-1993

Series 3: User Guides, 1991-2001

Series 4: Food and Drug Administration, 1987-2001

Series 5: Press Clippings, 1983-2010

Series 6: Audiovisual Materials, 1988-2009

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

Inventions -- 20th century

Inventions -- 21st century
Inventors -- 20th century
Inventors -- 21st century
Medical Equipment
Medical innovations
Orthopedics

Names:

Bargar, William L.
Erbe, Klaus
Foley, Robert
Forstein, Micah
Hanson, Randall
Nacion, Ramon
Newcomb, Alex
Whiseant, Steve
Zuhars, Joel

Container Listing

Series 1: Project History and Background Materials, 1985 - 2003

Scope and Contents: This series consists of background materials and the history of the project primarily through correspondence.

Integrated Surgical Systems (ISS) , Inc., of Sacramento California was established in XXXX to develop computer-based, image-driven, surgical robotics systems. The company integrates sophisticated imaging and robotics technologies into precision application-oriented tools for exacting surgical procedures.

The company grew out of by Dr. Howard A. "Hap" Paul (1949-1993) and orthopaedic surgeon Dr. William Bargar (XXXX) collaboration with IBM's Thomas J. Watson Research Center and the University of California, Davis. In 1990, Robodoc™ Surgical Assistant System was successfully used by Dr. Paul to perform the world's first robotic-assisted total hip replacement surgery on a dog. ISS began a limited feasibility study of Robodoc™, authorized by the Food and Drug Administration for human surgery from 1992-1993 at Sutter General Hospital.

The Robodoc™ System consists of two integrated components which comprise the single turnkey system, the Orthodo™c preoperative planning workstation and Robodoc™, the computer controlled surgical robot.

| | |
|------------------|---|
| Box 1, Folder 1 | Biographical information (William Bargar, Brett Mittelstadt, Hap Paul, and Peter Kazanzides), 2011 - 2011, 1993 - 1993 |
| Box 1, Folder 2 | Dr. William Bargar (project time), undated |
| Box 1, Folder 3 | Corporate identity, undated Notes: Includes Integrated Surgical Systems, Inc.; Robodoc, Curexo technology Corporation,; and Think Surgical, Inc. |
| Box 1, Folder 4 | Integrated Surgical Systems, Inc. (company overview), undated |
| Box 1, Folder 5 | Integrated Surgical Systems, Inc. (style guide), undated |
| Box 1, Folder 6 | Interview notes of Hap Paul and William Bargar, 1986 May 7 |
| Box 1, Folder 7 | Correspondence, 2003 - 2003, 1985 - 1993 |
| Box 1, Folder 8 | University of California, Davis (correspondence) Notes: Incudes initial scope of work with IBM. |
| Box 1, Folder 9 | University of California, Davis, 1985 - 1986 |
| Box 1, Folder 10 | University of California, Davis, 1988 - 1989 |
| Box 1, Folder 11 | Robodoc proposal, 1990 |

| | |
|------------------|--|
| Box 1, Folder 12 | Robodoc™, a robotic surgical system, undated |
| Box 1, Folder 13 | Robodoc™, business plan, 1990 March 14 |
| Box 1, Folder 14 | Integrated Surgical Systems, Inc., business plan, 1993 September 29 |
| Box 1, Folder 15 | ComputerWorld Smithsonian Awards Program, Integrated Surgical Systems, Inc., 1993 June 8 |
| Box 2, Folder 1 | Non-homogenous material milling using a robotic manipulator with force controlled velocity, 1993 Notes: Joel Zuhars, master thesis, University of California, Davis |
| Box 2, Folder 2 | Non-homogenous material milling using a robotic manipulator with force controlled velocity, [1993?] Notes: Joel Zuhars master thesis notes |
| Box 2, Folder 3 | Articles about Robodoc™, 1994 - 1998 |
| Box 2, Folder 4 | Articles about hip replacement, 1992 - 1993 |
| Box 2, Folder 5 | Bauer, Boerner, and Draenert. The Robodoc Assistance in Total Hip Replacement, 1998 |
| Box 2, Folder 7 | Integrated Surgical Systems, Inc., Securities and Exchange Commission, Form S-3, registration statement, 1998 December 14 |
| Box 2, Folder 7 | Integrated Surgical Systems, Inc., Securities and Exchange Commission, Form 10-Q and 10-QSB, 2001 |

[Return to Table of Contents](#)

Series 2: Engineering, 1989-2000 (bulk 1991-1993)

Scope and Contents: This series consists of drawings, correspondence, memoranda, and notes detailing the development of the Robodoc™. The meeting summaries and design review documents provide insight into the review and decision making process for various aspects of development.

| | |
|------------------|---|
| Box 3, Folder 2 | Software development standard operating procedures, 1995 |
| Box 3, Folder 3 | System and method for performing image directed robotic orthopaedic procedures (US 6,033 415), 2000 |
| Box 3, Folder 4 | Pendant membrane switch panel, 1991 - 1992 |
| Box 3, Folder 5 | Pre-operative plan reading software test, 1992 |
| Box 3, Folder 6 | Design review and meeting summaries, 1991 |
| Box 3, Folder 7 | Problems with Robodoc™ system (review of November 7, 1991), 1991 |
| Box 3, Folder 8 | Design review and meeting summaries, 1992 |
| Box 3, Folder 9 | Design review and meeting summaries, 1993 January-1993 April |
| Box 3, Folder 10 | Design review and meeting summaries, 1993 May-1993 June |
| Box 4, Folder 1 | Design review and meeting summaries, 1993 August-1993 December |
| Box 4, Folder 2 | Design review and meeting summaries, 1993 July |
| Box 4, Folder 3 | Design review and meeting summaries, 1994 January |
| Box 4, Folder 4 | Design review and meeting summaries, 1994 February-1994 November |
| Box 4, Folder 5 | Design review memoranda, 1995 |
| Box 4, Folder 6 | Staff meeting summaries, 1997 |
| Box 4, Folder 7 | Engineering budget planning, 1998 |
| Box 4, Folder 8 | Bone motion detection documentation, 1991 - 1992 |
| Box 5, Folder 1 | Dacomobile (purchase order), 1991 |
| Box 5, Folder 2 | Electronics cabinet (purchase orders, notes, specifications and instructions), 1991 |
| Box 5, Folder 3 | Workstation assembly procedure, 1992 |

| | |
|-------------------|--|
| Box 5, Folder 4 | Procurement specification, screw fastening kinematics plate to kinematic post, 1992 July 2 |
| Box 5, Folder 5 | Procurement specifications, pin style spanner wrench for fixator mounting, 1992 July 3 |
| Box 5, Folder 6 | Procurement specification, Robodoc thread mounting plate, 1992 July 3 |
| Box 5, Folder 7 | Procurement specification for swivel machine leveling mount for leg support, 1992 July 5 |
| Box 5, Folder 8 | Design document, isolation transformer, 1992 |
| Box 5, Folder 9 | Robodoc, rim box (purchase orders), 1991 |
| Box 5, Folder 10 | Anatomic medullary locking (AML) sizes and tolerance data, 1992 |
| Box 5, Folder 11 | Pin installation, kit sterilization procedure, 1992 |
| Box 5, Folder 12 | Labeling review, 1991 - 1992 |
| Box 5, Folder 13 | Specifications for labeling, 1992 |
| Box 5, Folder 14 | C.T. pin installation tools, 1992 |
| Box 5, Folder 15 | Robodoc operative report form, undated |
| Box 5, Folder 16 | Specifications, pre-operative plan reading software, 1992 |
| Box 5, Folder 17 | Anteroposterior lateral fit data, 1997 |
| Box 5, Folder 18 | Transferring CT data to PC server (supplemental instructions for CT technicians), [1991?] |
| Map-folder 1 | Robot Interface, RIM box (Drawing #100145), 1992 October 6 8 Drawings |
| Map-folder 1 | Robot Interface, RIM box (Drawing #100145), 1992 October 6 6 Drawings |
| Map-folder 1 | Operating room display stand (Drawing #100187), 1992 October 12 7 Drawings |
| Map-folder 1 | Kinematic diagnostic assembly, 1992 October 15 1 Drawing |
| Box 17, Folder 1A | Pin location sleeve assembly and bearing sleeve, 1992 October 16 |

10 Drawings

| | |
|------------------|---|
| Map-folder 1 | Orthodoc assembly, 1992 October 19 6 Drawings |
| Map-folder 1 | Robodoc surgical tool control cabinet, 1992 October 21 6 Drawings |
| Box 17, Folder 1 | Drawings, 101198 to 101295 (base for ROBODOC), 1994 80 Drawings |
| Box 17, Folder 2 | Drawings, 101301 to 101375 (base for ROBODOC), 1994 10 Drawings |
| Box 17, Folder 3 | Drawings, Eng 2000 to Eng 3000 (base for ROBODOC), 1994 87 Drawings |
| Box 17, Folder 4 | Drawings, Eng 20033 to Eng 20043 (base for ROBODOC), 1994 5 Drawings |
| Box 17, Folder 5 | Drawings, unidentified and drawing list, 1994 - 1994 18 Drawings |
| Map-folder 1 | Wiring diagram, 1992 February 17 |
| Box 3, Folder 1 | Techmedica (implants), 1989 - 1990 49 Drawings |

[Return to Table of Contents](#)

Series 3: User Guides, 1991 - 2001

| | |
|------------------|---|
| Box 5, Folder 19 | Orthodoc™ User Guide for the Orthopædic Surgeon, 1991 |
| Box 6, Folder 1 | Orthodoc™ User Guide, 1991 - 1993 |
| Box 6, Folder 2 | Orthodoc™ step-by-step templating, 1993 |
| Box 6, Folder 3 | Orthodoc™ User Manual (international edition), 1991 - 2000 |
| Box 6, Folder 4 | Orthodoc™ Bedienungsanleitung, 1991 - 1994 |
| Box 6, Folder 5 | Robodoc™ Preoperative Protocols, 1991 - 1993 |
| Box 6, Folder 6 | RFI compliance statement for German EMC/RFI law, 1993 April |
| Box 6, Folder 7 | Robodoc™ Surgical Assistant System Postoperative CT Protocol for Robodoc Patients, 1993 April |
| Box 6, Folder 8 | Robodoc™ Preoperative protocols (international edition), 1991 - 1999 |
| Box 6, Folder 9 | Robodoc™ Surgical Assistant System Pin Implantation and CT Protocols, 1991 - 1993 |
| Box 7, Folder 1 | Robodoc™ Surgical Assistant System and Orthodoc™ preoperative Planning System, 1997 |
| Box 7, Folder 2 | Robodoc™ User Guide, 1991 - 1993 |
| Box 7, Folder 3 | Robodoc™ User Manual (international edition, 1991 - 2001 |
| Box 7, Folder 4 | Robodoc™ User Manual (international edition) with illustrations, 1991 - 2001 |
| Box 7, Folder 5 | Robodoc™ Beidienungsanleitung (German translations), 1995 |
| Box 7, Folder 6 | JR3 Universal Force Moment Sensor System Operation Manual, 1993 |

[Return to Table of Contents](#)

Series 4: Food and Drug Administration Materials, 1987 - 2001

Scope and Contents: This series consists of materials related to Food and Drug Administration (FDA) approval of Robodoc™ Surgical Assistant System. The materials include primarily correspondence, clinical trial data and agreements, notes, articles, study protocols, patient consent forms, clinical study case report forms and other materials created for institutional review committees. Many of the clinical trial documents provide condensed information about the device (Robodoc) protocols used, risk analysis, monitoring procedures, and consent forms. Also included is correspondence with Advanced Biosearch Associates (ABA), a contract Food and Drug Administration (FDA) regulatory and clinical research firm. ABA was founded in 1979 and is based in Danville, California.

| | |
|------------------|--|
| Box 7, Folder 7 | Regulations and publications, 1987 - 1988 |
| Box 7, Folder 8 | Advanced Biosearch Associates, 1991 |
| Box 8, Folder 1 | Robodoc™, brief history with FDA regulations, undated |
| Box 8, Folder 2 | Institutional Review Board (notes and correspondence), 1990 - 1992 |
| Box 8, Folder 3 | Robodoc efficacy project, patient consent forms and protocols, 1991 |
| Box 8, Folder 4 | Investigational device exemption, comments and suggestions, 1991 January |
| Box 8, Folder 5 | Code of Federal Regulations, Title 21, Part 812, Investigational Device Exemption, 1991 April |
| Box 8, Folder 6 | General ORDB outline for clinical data presentations in premarket notifications and submissions, 1991 June |
| Box 8, Folder 7 | Robotic instrumentation for cementless hip replacement, Department of health and Human Services (grant application), 1991 - 1992 |
| Box 8, Folder 8 | Robodoc™ protocols and consent, 1991 November |
| Box 8, Folder 9 | Institutional Review Board (IRB) correspondence, 1991-1993 (bulk 1992-1992) |
| Box 8, Folder 10 | Robodoc™ Surgical Assistant System Investigational Plan, 1992 February 7 |
| Box 9, Folder 1 | Robodoc™ Surgical Assistant System Investigational Plan, Volume 1, 1992 May 27 |
| Box 9, Folder 2 | Robodoc™ Surgical Assistant System Investigational Device Exemption Applications, Volume 4, Exhibits 1-7, 1992 May 27 |
| Box 9, Folder 3 | Robodoc™ Surgical Assistant System Adjunct Clinical Study Protocol, 1992 September 22 |

| | |
|-------------------|--|
| Box 10, Folder 1 | Robodoc™ Surgical Assistant System Investigational Exemption Application, Volume 4, Exhibits 1-5, 1992 September 8 |
| Box 10, Folder 2 | Robodoc™ multi-center trials, 1993 |
| Box 10, Folder 3 | Robodoc™ independent radiographic review, 1993 April |
| Box 10, Folder 4 | Robodoc™ Surgical Assistant System multi-center trial (investigational exemption device application), 1993 May 6 |
| Box 10, Folder 5 | Robodoc™ Surgical Assistant System multi-center clinical trials, 1993 June 30 |
| Box 10, Folder 6 | Robodoc™ canine study protocol, 1993 July 7 |
| Box 10, Folder 7 | Robodoc™ Surgical Assistant System IDE number G920035, IDE Supplement, 1993 July 30 |
| Box 11, Folder 1 | Integrated Surgical Ssystems, Inc. (correspondence), 1993 - 1997 |
| Box 11, Folder 2 | Experimental subjects bill of rights and consent form, 1992 |
| Box 11, Folder 3 | Non-staff assist for Robodoc™ device training, 1993 |
| Box 11, Folder 4 | Robodoc™ Surgical Assistant System clinical study case form, 1993 |
| Box 11, Folder 5 | Notes for Food and Drug Administration rehearsal, 1996 October 5 |
| Box 11, Folder 6 | Robodoc™ Surgical Assistant System (background documents), 1997 December |
| Box 11, Folder 7 | Robodoc™ histology (includes photographs of canine), 1997 |
| Box 11, Folder 8 | Robodoc™ meeting with Food and Drug Administration, 1998 February 19 |
| Box 11, Folder 9 | Robodoc™ Surgical Assistant PMA assignment and responsibilities for preparaion of PMA sections, 1998 March |
| Box 11, Folder 10 | Robodoc™ Surgical Assistant U.S. multicenter study protocol, 1998 - 1999 |
| Box 11, Folder 11 | Conference call notes, 1998-10-11 - 1998-10-11 |
| Box 11, Folder 12 | Advisory panel package, 1999-11-04 - 1999-11-04 |
| Box 12, Folder 1 | Digimatch Robodoc™ Surgical System internal review committee, 2000 |
| Box 12, Folder 2 | Digimatch Robodoc™ Surgical System clinial trial, 2000 - 2001 |
| Box 12, Folder 3 | Digimatch Robodoc™ Surgical Assistance System (institutional review board materials), 2000 - 2001 |

| | |
|------------------|--|
| Box 12, Folder 4 | Patient questionnaires, 1989 |
| Box 12, Folder 5 | Robodoc™ Surgical Assistant System, adjunct clinical study protocol, 1992 |
| Box 12, Folder 6 | Robodoc™ clinical feasibility studies, 1993 |
| Box 12, Folder 7 | Robodoc™ Surgical Assistant , evaluation and results studies, 1997 December |

[Return to Table of Contents](#)

Series 5: Press Clippings, 1983 - 2010

| | |
|-------------------|---|
| Box 12, Folder 8 | Press clippings, 1983 - 1984 |
| Box 12, Folder 9 | Press clippings, 1986 |
| Box 12, Folder 10 | Press clippings, 1987 - 1989 |
| Box 12, Folder 11 | Press clippings, 1990 - 1991 |
| Box 13, Folder 1 | Press clippings, 1992 |
| Box 13, Folder 2 | Press clippings, 1993 |
| Box 13, Folder 3 | Robodoc™ clinical trial announcement (press kit0, 1993 September 28 |
| Box 13, Folder 4 | Press clippings, 1994 - 1995 |
| Box 13, Folder 5 | Press clippings, 1997 |
| Box 13, Folder 6 | Press clippings, 1998 |
| Box 13, Folder 7 | Press clippings, 2000 - 2001 |
| Box 13, Folder 8 | Press clippings, 2002 |
| Box 13, Folder 9 | Press clippings, 2003 |
| Box 13, Folder 10 | Press clippings, 2004 |
| Box 13, Folder 11 | Press clippings, 2005 |
| Box 13, Folder 12 | Press clippings, 2006 |
| Box 13, Folder 13 | Press clippings, 1007 - 2008 |
| Box 13, Folder 14 | Press clippings, 2010 |
| Box 13, Folder 15 | Press clippings, undated |
| Box 13, Folder 16 | Techmedica product literature, 1986 |
| Box 13, Folder 17 | Photographs, undated Notes: Sutter General Hospital orthopaedic surgeons and staff |

[Return to Table of Contents](#)

Series 6: Audiovisual Materials, 1988 - 2009

| | |
|-------------------------------|---|
| Box 14, Item AC1378-OV0001 | University of California, Davis, School of Medicine, television coverage of ROBODOC, 1988 April 25 1 Videocassettes (VHS) Notes: KGO-TV, Channel 7, 6:00 pm |
| Box 14, Item AC1378-OV0002 | Sacramento News 10, 1987 February 17 1 Videocassettes (VHS) Notes: Techmedia, Dr. Bargar and Dr. Paul at University of California Davis |
| Box 14, Item AC1378-OV0003 | Robo-Dock, undated 1 Videocassettes (VHS) Notes: Hap Paul, D.V.M., Assistant Clinical professor, Orthopaedics, University of California, Davis |
| Box 14, Item AC1378-OV0004 | Robodoc, IBM, 1989 1 Videocassettes (VHS) Notes: Dr. William Bargar |
| Box 14, Item AC1378-OV0005 | ROBODOC, 1989 April 1 1 Videocassettes (VHS) Notes: KTXL Beyond Tomorrow |
| Box 14, Item AC1378-OV0006 | First News 3, 1989 February 14 1 Videocassettes (VHS) Notes: KVBC TV |
| Box 14, Item AC1378-OV0007 | Robo-Doc, 1990 May 3-1990 May 10 1 Videocassettes (VHS) Notes: Media coverage |
| Box 14, Item AC1378-OV0008 | ROBODOC, 1990 July 1-1990 September 30 1 Videocassettes (VHS) Notes: Media coverage |
| Box 14, Item AC1378-OV0009 | ROBODOC at Sutter General Hospital, 1992 November 9 1 Videocassettes (VHS) Notes: Press conference related |
| Box 15, Item AC1378-OV0010 | First Robodoc cementless total hip replacement, 1992 November 7 1 Videocassettes (VHS) Notes: Tom Lippert Productions, news release |
| Box 15, Item AC1378-OV0011 | First ROBODOC cementless total hip replacement, 1992 November 7 1 Videocassettes (VHS) Notes: Tom Lippert Productions, 30:00 minute version |

| | |
|----------------------------------|--|
| Box 15, Item AC1378-OV0012 | Sutter General Hospital, 1992 1 Videocassettes (VHS) Notes: ROBODOC media coverage |
| Box 15, Item AC1378-OV0013 | ROBODOC, undated 1 Videocassettes (VHS) Notes: Media coverage on KPNX and WBRZ television |
| Box 15, Item AC1378-OV0014 | Channel 10, undated 1 Videocassettes (VHS) Notes: Dr. William Bargar |
| Box 15, Item AC1378-OV0015 | ROBODOC, 2001 September 20 1 Videocassettes (VHS) Notes: Total Running Time: 04:25 |
| Box 15, Item AC1378-OV0016 | Channel 10, 2002 April 19 1 Videocassettes (VHS) Notes: Dr. William Bargar |
| Box 15, Item AC1378-OV0017 | Roboto-Assisted Total Hip Arthroplasty, 2002 1 Videocassettes (VHS) Notes: Total Running Time: 12 minutes |
| Box 15, Item AC1378-OV0018 | Integrated Surgical Systems, ROBODOC #1, undated 1 Videocassettes (VHS) |
| Box 15, Item AC1378-OV0019 | Integrated Surgical Systems, ROBODOC #1, undated 1 Videocassettes (VHS) |
| Box 15, Item AC1378-OV0020 | Channel 13, ROBODOC, undated 1 Videocassettes (VHS) Notes: KOVR television, includes Dr. William Bargar and Dr. Blumenfeld |
| Box 16, Item AC1378-OV0021 | Dr. William Bargar talk 1 Videocassettes (VHS) Notes: Total Running Time: 06:00 minutes |
| Box 16, Item AC1378-OV0022 | Integrated Surgical Systems, ROBODOC, undated 1 Videocassettes (VHS) |
| Box 16, Item AC1378-OV0023 | Immi, undated 1 Videocassettes (VHS) Notes: Engineering copy |
| Box 16, Item AC1378-OV0024-25 | Integrated Surgical Systems, ROBODOC II 1 Videocassettes (VHS) Notes: Engineering demo copy |

| | |
|--------------------------------|---|
| Box 16, Item AC1378-DVD0026 | ROBODOC 3.4, 2008 March 4 1 Electronic discs (DVD) |
| Box 16, Item AC1378-OV0027 | Dr. William Bargar video with Food and Drug Administration, undated 1 Electronic discs (DVD) |
| Box 16, Item AC1378-DVD0028 | Dr. William Bargar, undated 1 Electronic discs (DVD) Notes: B-roll, scenes 1 and 2 |
| Box 16, Item AC1378-DVD0029 | ORTHODOC 5.0, 2009 November 20 1 Electronic discs (DVD) Notes: Training video |
| Box 16, Item AC1378-CD0030 | ROBODOC brochure materials, undated 1 Electronic discs (CD) Notes: Power point |
| Box 16, Item AC1378-DVD0031 | Four surgeries, undated 1 Electronic discs (DVD) |
| Box 16, Item AC1378-DVD0032 | ROBODOC Presentation, undated 1 Electronic discs (DVD) |
| Box 16, Item AC1378-DVD0033 | ROBODOC, undated 1 Electronic discs (DVD) Notes: THA post and TKA |
| Box 16, Item AC1378-CD0034 | ROBODOC cement removal, 2008-04 - 2008-04 1 Electronic discs (CD) |
| Box 16, Item AC1378-DVD0035 | ROBODOC, undated 1 Electronic discs (DVD) Notes: Hip revision and primary knee procedures |
| Box 16, Item AC1378-DVD0036 | Discovery Channel, Smart Tools Excerpt, 2004-02 1 Electronic discs (CD) Notes: ORTHODOC and ROBODOC presentations |
| Box 16, Item AC1378-DVD0037 | ROBODOC, Discovery Channel Smart Tools Excerpt, undated 1 Electronic discs (CD) |
| Box 16, Item AC1378-DVD0038 | ROBODOC segment on Discovery Channel, undated 1 Electronic discs (CD) |
| Box 16, Item AC1378-DVD0039 | ROBODOC, knee procedure with animation, [2008?] 1 Electronic discs (CD) |

[Return to Table of Contents](#)

Series 7: Oral History Interviews, 2016

Subseries 7.1: Audio Files, 2016

13 Digital files (.wav files)

Scope and Contents: Subseries consists of 13 .wav audio files for 12 interviews conducted by Curator Judy Chelnick of the Division of Medicine and Science at the National Museum of American History in Fremont, California, March 2016.

Access and use of born digital audio materials available in the Archives Center reading room.

| | |
|-------------------------|--|
| Item AC1378-BDA0012.WAV | Bargar, William, 2016-03-24 526.74 Megabytes (Duration: 1:44:22; .wav file) |
| Item AC1378-BDA0013.WAV | Bargar, William, 2016-03-24 147.82 Megabytes (Duration: 0:29:17) |
| Item AC1378-BDA0010.WAV | Erbe, Klaus, 2016-03-23 204.94 Megabytes (Duration: 0:40:36) |
| Item AC1378-BDA0011.WAV | Foley, Robert, 2016-03-24 211.43 Megabytes (Duration: 0:41:54) |
| Item AC1378-BDA0001.WAV | [Forstein, Micah?], 2016-03-21 17.78 Megabytes (Duration: 0:03:31) |
| Item AC1378-BDA0002.WAV | [Forstein, Micah?], 2016-03-21 212.81 Megabytes (Duration: 0:42:10) |
| Item AC1378-BDA0006.WAV | Hanson, Randall, 2016-03-22 180.05 Megabytes (Duration: 0:35:41) |
| Item AC1378-BDA0007.WAV | Hanson, Randall, 2016-03-22 89.55 Megabytes (Duration: 0:17:45) |
| Item AC1378-BDA0005.WAV | Nacion, Ramon, 2016-03-22 215.78 Megabytes (Duration: 0:42:45) |
| Item AC1378-BDA0009.WAV | Newcomb, Alex, 2016-03-23 199.9 Megabytes (Duration: 0:39:37) |
| Item AC1378-BDA0003.WAV | Whiseant, Steve, 2016-03-21 348.41 Megabytes (Duration: 1:09:02) |
| Item AC1378-BDA0004.WAV | Whiseant, Steve, 2016-03-22 2.44 Megabytes (Duration: 28.96 seconds) |
| Item AC1378-BDA0008.WAV | Zuhars, Joel, 2016-03-22 311.74 Megabytes (Duration: 1:01:46) |

Subseries 7.2: Video Files, 2016

87 Digital files (.mov files)

Scope and Contents: Interviews conducted by Curator Judy Chelnick of the Division of Medicine and Science at the National Museum of American History in Fremont, California, March 2016.

Access and use of born digital audio materials available in the Archives Center reading room.

| | |
|-------------------------|---|
| Item AC1378-BDV0125.MOV | Bargar, William, 2016-03-24 53.72 Megabytes (Duration: 00:00:08:00) |
| Item AC1378-BDV0126.MOV | Bargar, William, 2016-03-24 905.16 Megabytes (Duration: 00:02:27:00) |
| Item AC1378-BDV0127.MOV | Bargar, William, 2016-03-24 4,061.52 Megabytes (Duration: 00:11:08:00) |
| Item AC1378-BDV0128.MOV | Bargar, William, 2016-03-24 4,061.68 Megabytes (Duration: 00:11:12:00) |
| Item AC1378-BDV0129.MOV | Bargar, William, 2016-03-24 2,627.14 Megabytes (Duration: 00:07:04:00) |
| Item AC1378-BDV0130.MOV | Bargar, William, 2016-03-24 4,061.03 Megabytes (Duration: 00:10:48:00) |
| Item AC1378-BDV0131.MOV | Bargar, William, 2016-03-24 4,063.96 Megabytes (Duration: 00:10:51:00) |
| Item AC1378-BDV0132.MOV | Bargar, William, 2016-03-24 3,010.43 Megabytes (Duration: 00:07:46:00) |
| Item AC1378-BDV0133.MOV | Bargar, William, 2016-03-24 4,064.43 Megabytes (Duration: 00:10:58:00) |
| Item AC1378-BDV0134.MOV | Bargar, William, 2016-03-24 4,064.92 Megabytes (Duration: 00:11:08:00) |
| Item AC1378-BDV0135.MOV | Bargar, William, 2016-03-24 484 Megabytes (Duration: 00:01:17:00) |
| Item AC1378-BDV0136.MOV | Bargar, William, 2016-03-24 4,061.81 Megabytes (Duration: 00:10:39:00) |
| Item AC1378-BDV0137.MOV | Bargar, William, 2016-03-24 3,099.16 Megabytes (Duration: 00:08:12:00) |
| Item AC1378-BDV0110.MOV | Erbe, Klaus, 2016-03-23 4,062.78 Megabytes (Duration: 00:11:01:00) |
| Item AC1378-BDV0111.MOV | Erbe, Klaus, 2016-03-23 4,066.42 Megabytes (Duration: 00:11:06:00) |
| Item AC1378-BDV0112.MOV | Erbe, Klaus, 2016-03-23 1,337.88 Megabytes (Duration: 00:03:39:00) |
| Item AC1378-BDV0118.MOV | Foley, Robert, 2016-03-24 4,060.76 Megabytes (Duration: 00:06:25:00) |
| Item AC1378-BDV0119.MOV | Foley, Robert, 2016-03-24 4,067.08 Megabytes (Duration: 00:06:25:00) |
| Item AC1378-BDV0120.MOV | Foley, Robert, 2016-03-24 4,068.34 Megabytes (Duration: 00:06:25:00) |

